

Borylation of calix[4]resorcinols under ultrasonic irradiation

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Abstract

The use of ultrasonic irradiation in the reactions of trialkyl borates with octahydroxytetraoctyl[4] metacyclophane allowed us obtaining tetraalkoxyboratocavitands with higher yields and under milder conditions. We first obtained 1,3,2-dioxaborolane and 1,3,2-dioxaborinane derivatives of tetraoctyl[4]meta-cyclophane using ultrasonic irradiation. Boratocavitands were converted into the corresponding amine complexes with isobutylamine. © 2012 Pleiades Publishing, Ltd.

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